GENLED Brands
www.genledbrands.com
Tel:+1 212 629 6830
Fax:

Report No.: **Test Time: 2022/8/29 10:20**

Luminaire Property

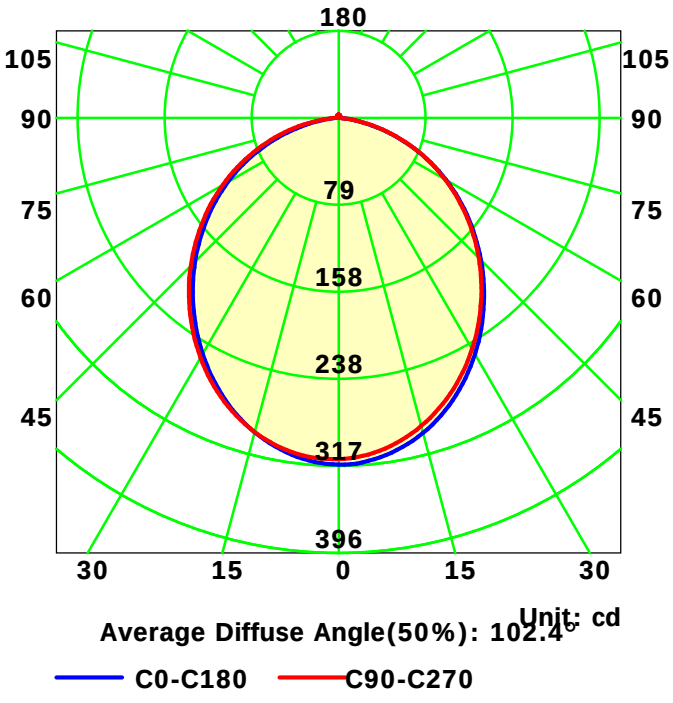
Luminaire Manufacturer:
Luminaire Category: PNS230MBK
Luminaire Description: PNS230MBK
Luminous Length (mm): 435
Luminous Width (mm): 23
Luminous Height (mm): 22
Voltage: 24.0 V
Current: 0.486 A
Power: 11.66 W
Power Factor: 1.000

Photometric Results

CIE Class: Direct
Total Rated Lamp Lumens: 800.3 lm
Measurement Flux: 800.3 lm
Efficiency: 100%
Downward Ratio: 99%
Upward Ratio: 1%
Horizontal Diffuse Angle(10%,50%): H154.9,H101.5
Vertical Diffuse Angle(10%,50%): V156.7,V103.3
Luminaire Efficacy Rating (LER): 69
Central Intensity: 316.03 cd
Max. Intensity: 316.11 cd
Pos of Max. Intensity: H0 V1

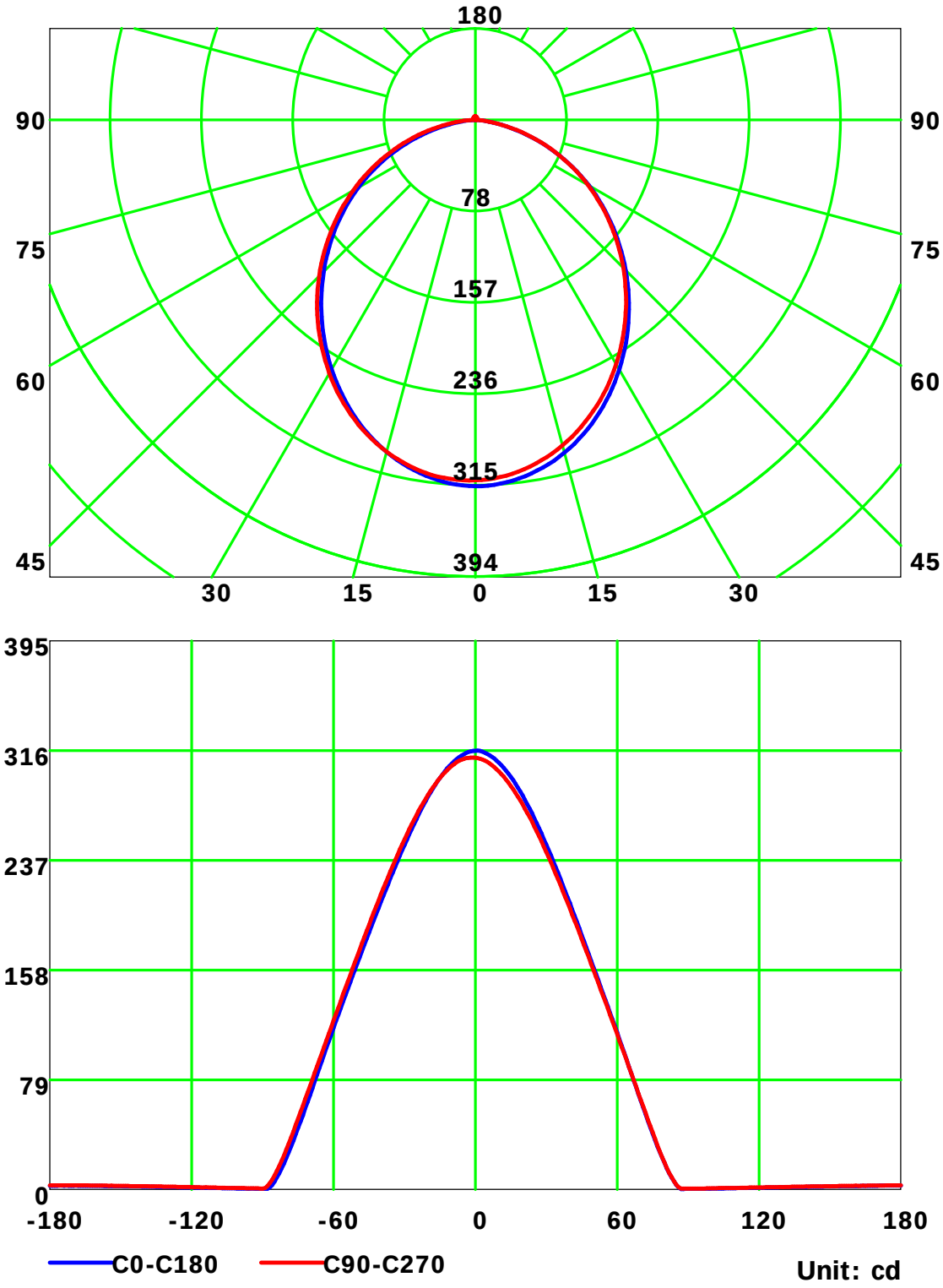
Picture Of Luminaire

Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 30.0
Gamma Plane (°):0.0-180.0:1.0
Test Lab:
Test Device: GPM-1800B
Test Type: TYPE C
Distance: 9.028 m
Temperature: 25
Humidity: 60%
Operator: Jacky
Inspector:

Luminous Intensity Distribution Curve



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Gamma Plane (°):0.0-180.0:1.0
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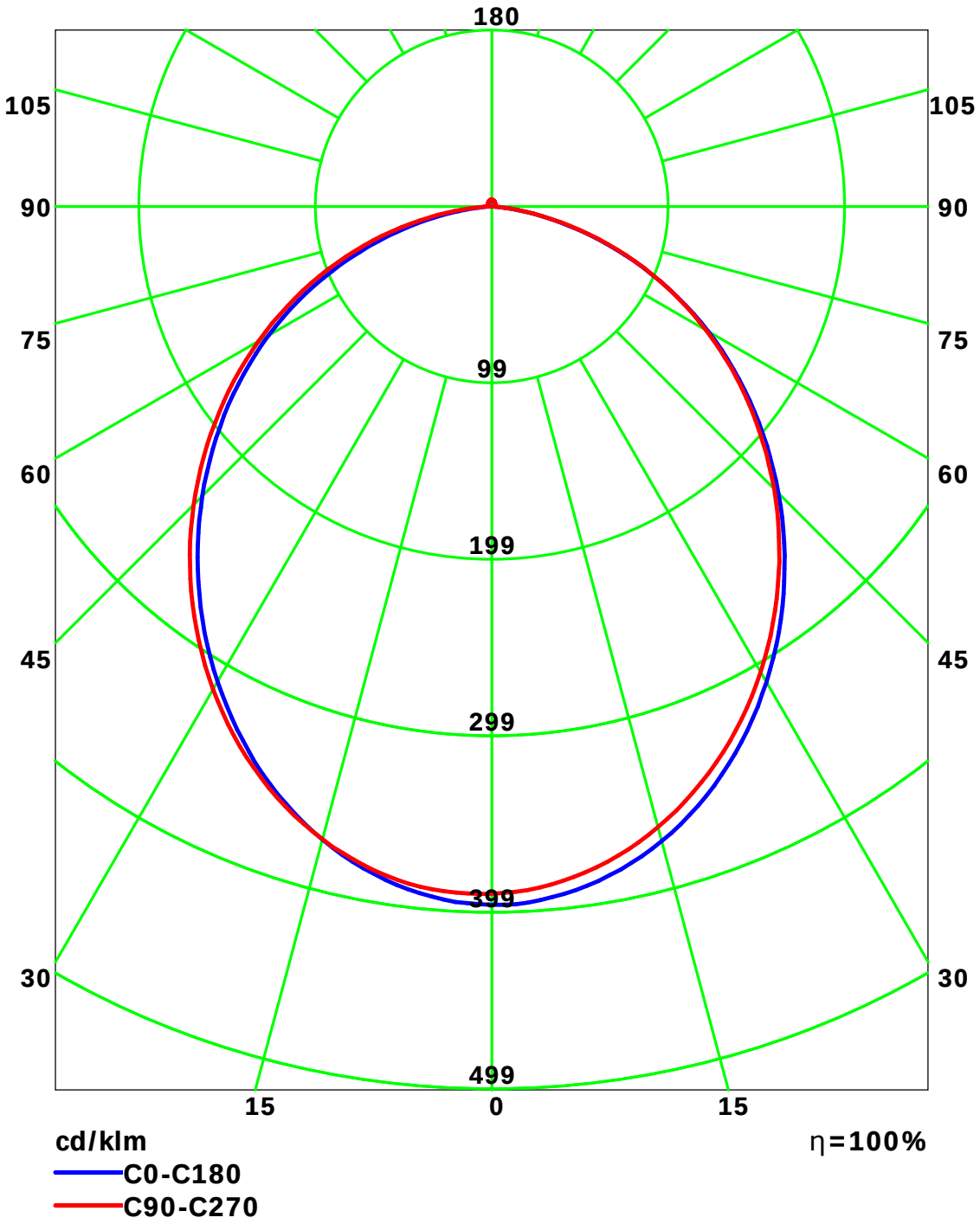
Humidity: 60%
Inspector:

Luminous Intensity Distribution Curve(cd/klm)



C Plane (°):0.0-360.0: 30.0
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Gamma Plane (°):0.0-180.0:1.0
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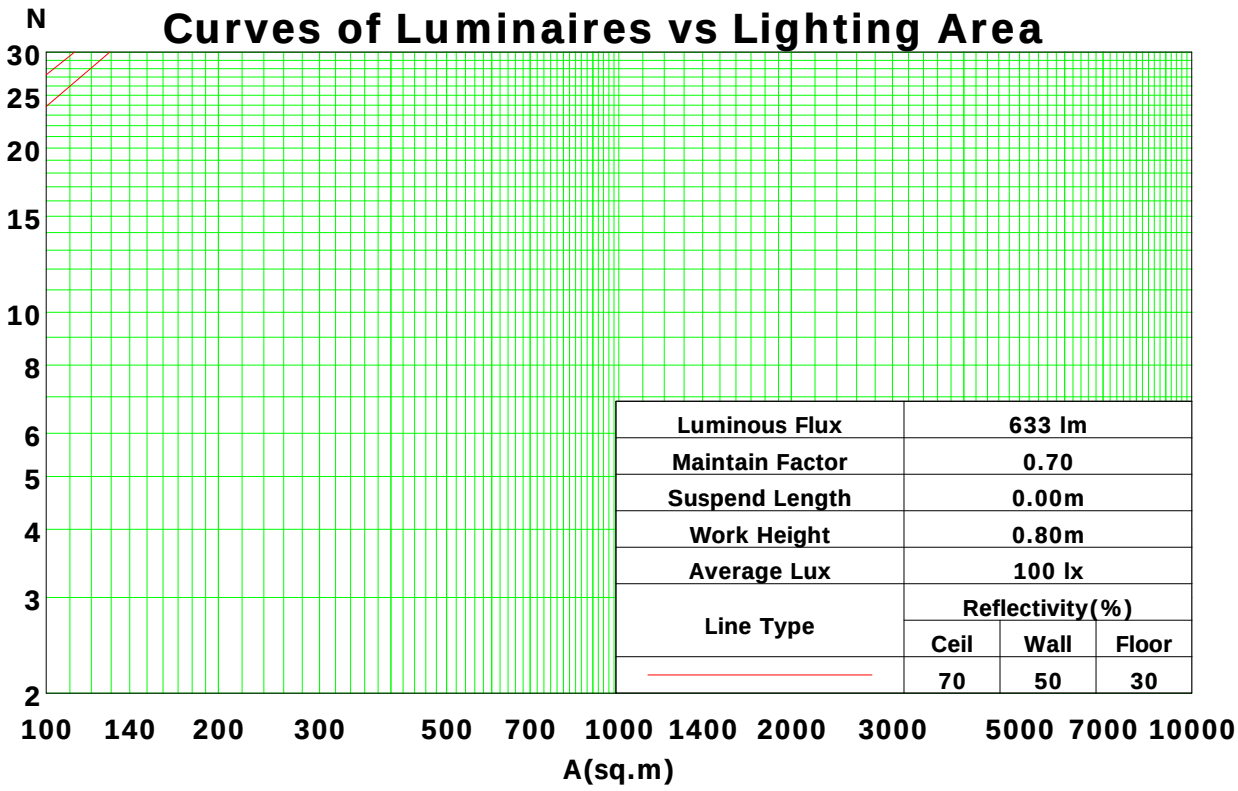
Inspector:

Coefficients Of Utilization - Zonal Cavity Method

RC	0.8	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.5	0.5	0.5	0.3	0.3	0.3	0.1	0.1	0.1	0
RW	0.7	0.5	0.3	0.1	0.7	0.5	0.3	0.1	0.5	0.3	0.1	0.5	0.3	0.1	0.5	0.3	0.1	0
RCR	RF = 0.2																	
0	119	119	119	119	116	116	116	116	110	110	110	105	105	105	101	101	101	99
1	109	104	100	97	106	102	98	95	98	95	92	93	91	89	90	88	86	84
2	99	92	85	79	97	90	83	78	86	81	76	82	78	74	79	76	73	70
3	91	81	73	66	88	79	72	66	76	70	64	73	68	63	70	66	62	60
4	83	72	63	57	81	70	62	56	68	61	55	65	59	54	63	58	53	51
5	77	64	55	49	75	63	55	49	61	53	48	59	52	47	57	51	47	45
6	71	58	49	43	69	57	49	43	55	48	42	53	47	42	51	46	41	39
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	43	37	33	31
9	57	44	36	31	56	44	36	31	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	31	27	25

Spacing Criteria (0-180): 1.18
Spacing Criteria (90-270): 1.19
Spacing Criteria (Diagonal): 1.29

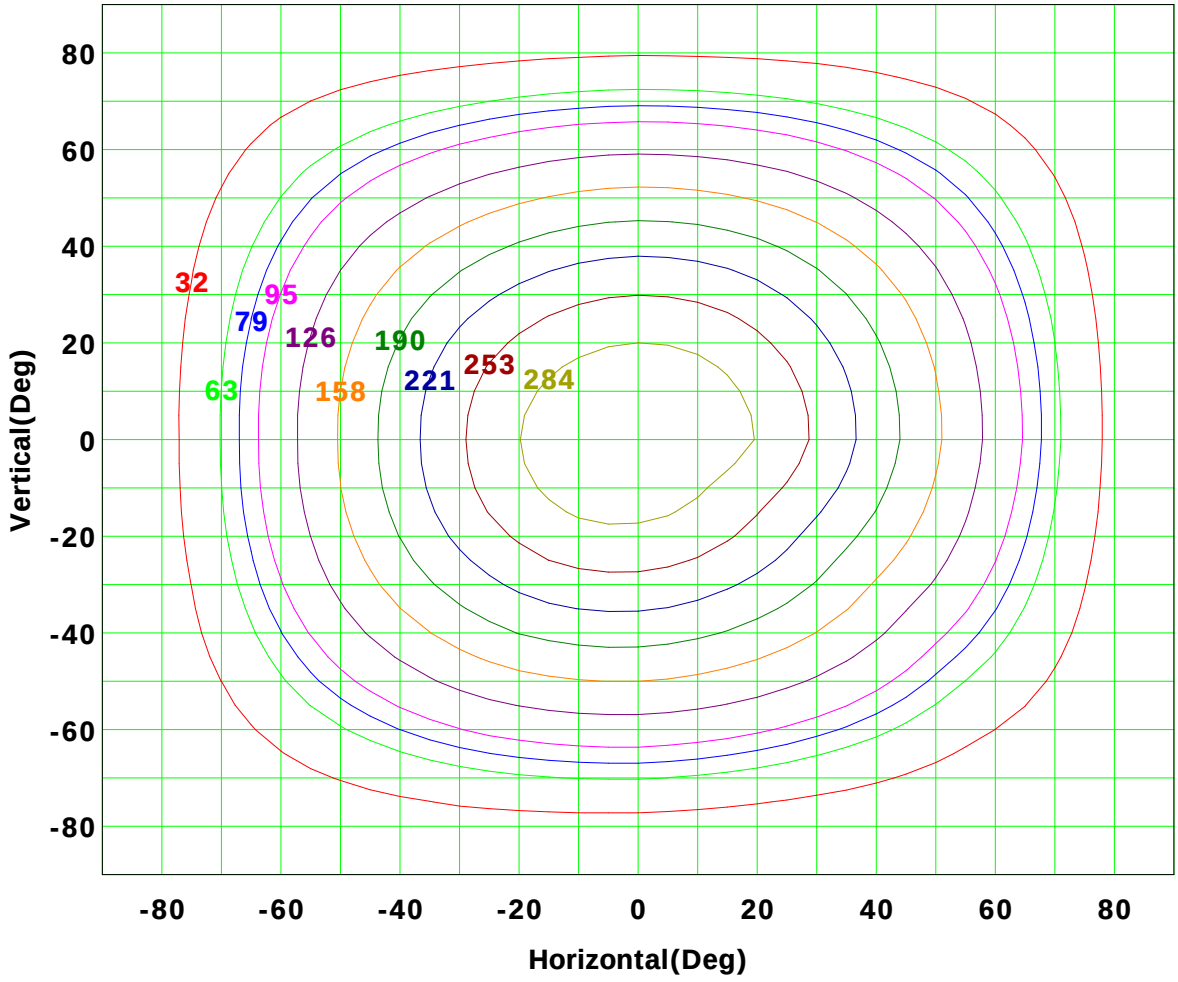
Curves of Luminaires vs Lighting Area



C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:

Isocandela (rectangle)



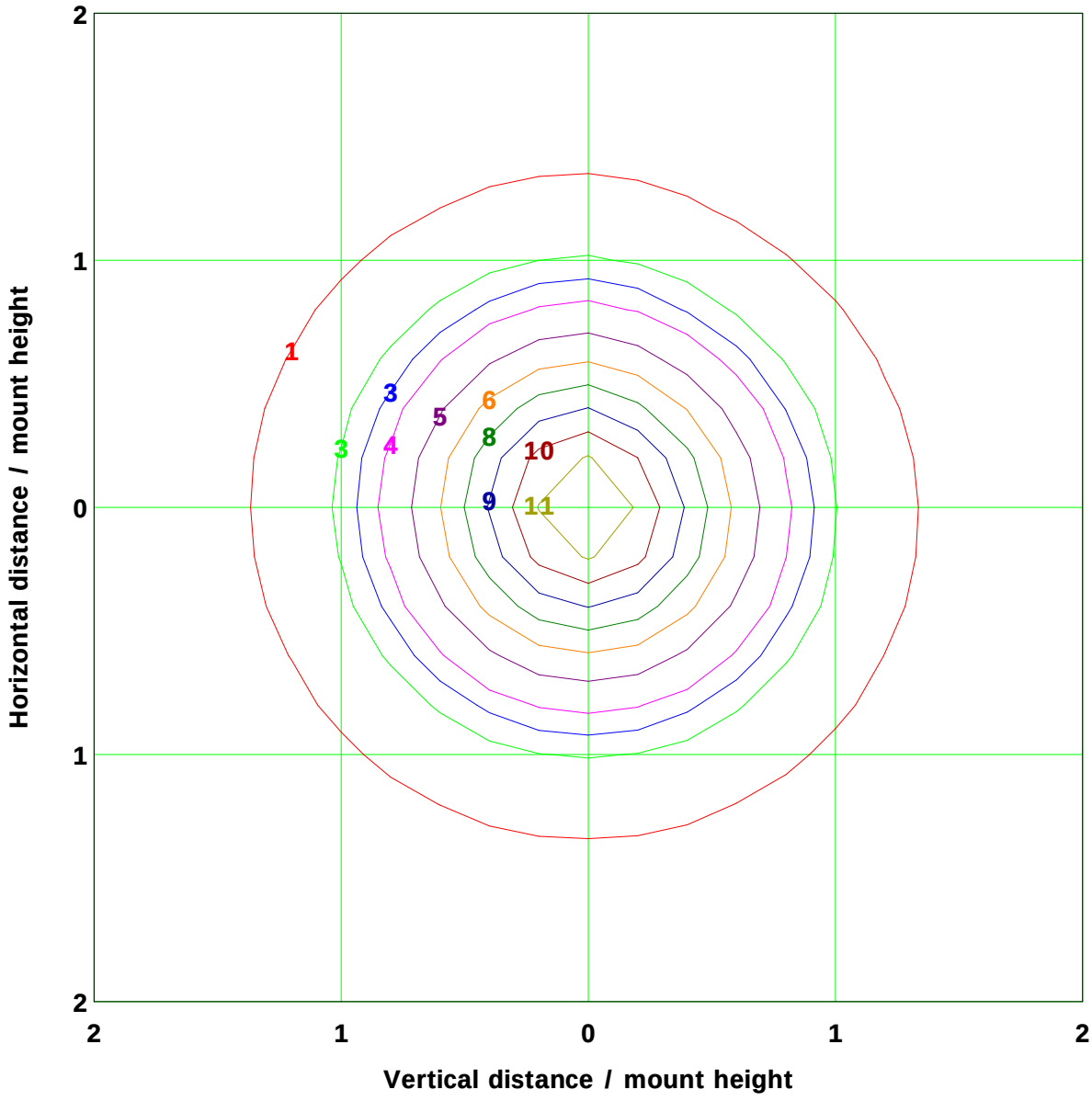
Imax (100%): 316 cd

(10%):	32 cd	(20%):	63 cd
(25%):	79 cd	(30%):	95 cd
(40%):	126 cd	(50%):	158 cd
(60%):	190 cd	(70%):	221 cd
(80%):	253 cd	(90%):	284 cd

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:

IsoLux Plot



Mounting Height: 5.0m Max Lux(100%): 12.6 lx

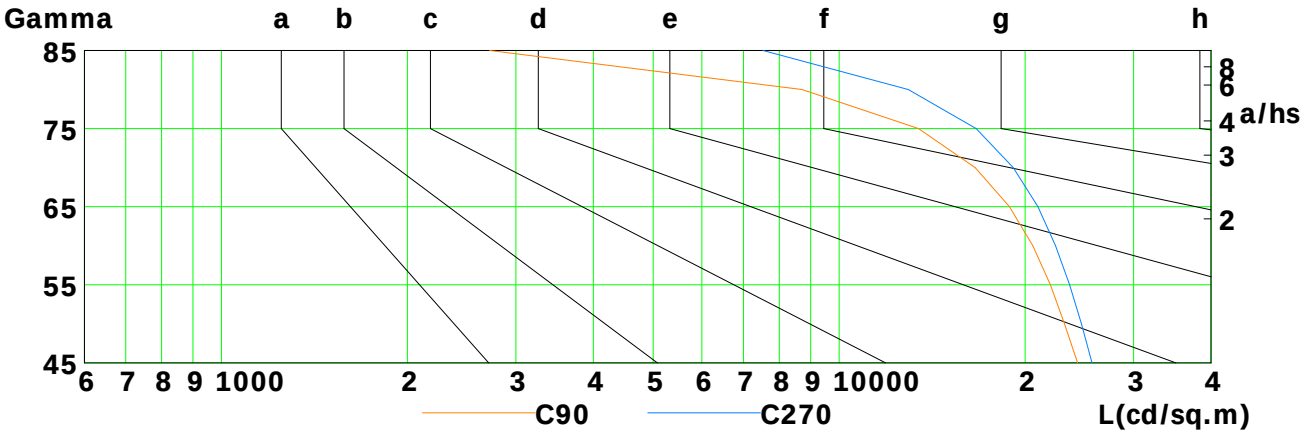
(10%): 1.3 lx	(20%): 2.5 lx
(25%): 3.2 lx	(30%): 3.8 lx
(40%): 5.1 lx	(50%): 6.3 lx
(60%): 7.6 lx	(70%): 8.8 lx
(80%): 10.1 lx	(90%): 11.4 lx

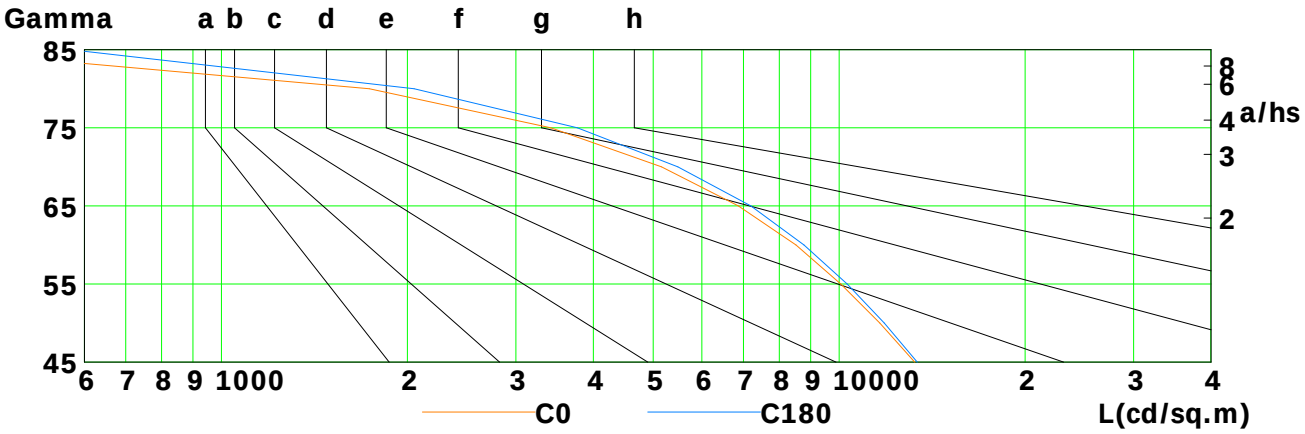
C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:

Lum Limit Curve

Dazzle	Quality	Illuminance (lx)							
1.15	A	2000	1000	500	<=300				
1.50	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.20	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h



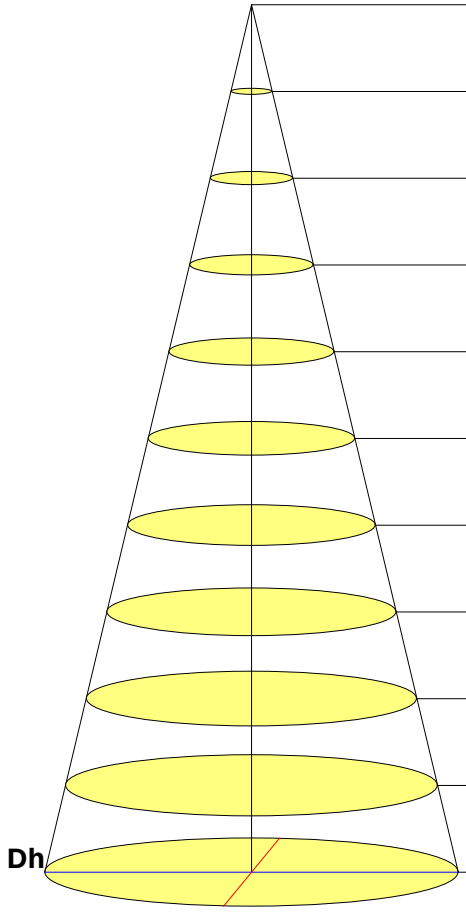


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	13260	11639	10071	8516	6874	5158	3414	1735	339
C90	24326	23186	21990	20593	18882	16616	13449	8709	2718
C180	13391	11839	10308	8773	7195	5485	3768	2053	572
C270	25677	24682	23621	22413	20986	19138	16672	12949	7529

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:

Illuminance at a Distance



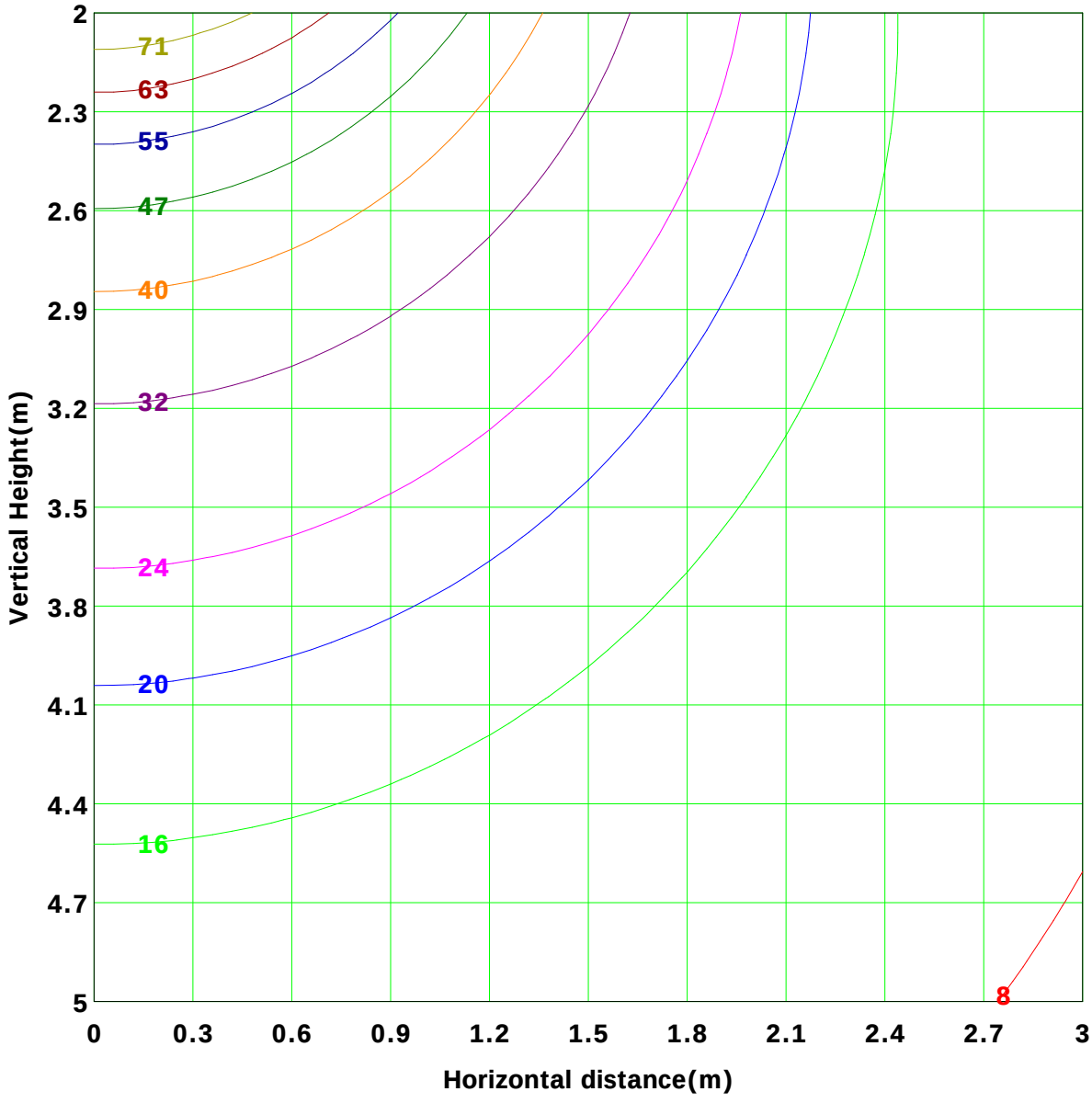
Dist(m)	Enadir(lx)	Dh/Dv_B(m)	S_B(sq.m)	Eav_B(lx)
1.0	316.03	2.45/2.53	4.9	62.86
2.0	79.01	4.90/5.06	19.5	15.71
3.0	35.11	7.35/7.59	44.0	6.98
4.0	19.75	9.80/10.12	78.1	3.93
5.0	12.64	12.24/12.65	122.1	2.51
6.0	8.78	14.69/15.17	175.8	1.75
7.0	6.45	17.14/17.70	239.3	1.28
8.0	4.94	19.59/20.23	312.5	0.98
9.0	3.90	22.04/22.76	395.6	0.78
10.0	3.16	24.49/25.29	488.3	0.63

Beam Angle(B): H101.5 V103.3 Field Angle(F): H154.9 V156.7

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:

Vertical IsoLux Plot



Lowest(m): 2.0m Highest(m): 5.0m Max Lux: 79.0 lx

(10%): 7.9 lx	(20%): 15.8 lx
(25%): 19.8 lx	(30%): 23.7 lx
(40%): 31.6 lx	(50%): 39.5 lx
(60%): 47.4 lx	(70%): 55.3 lx
(80%): 63.2 lx	(90%): 71.1 lx

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:

Area Flux Table

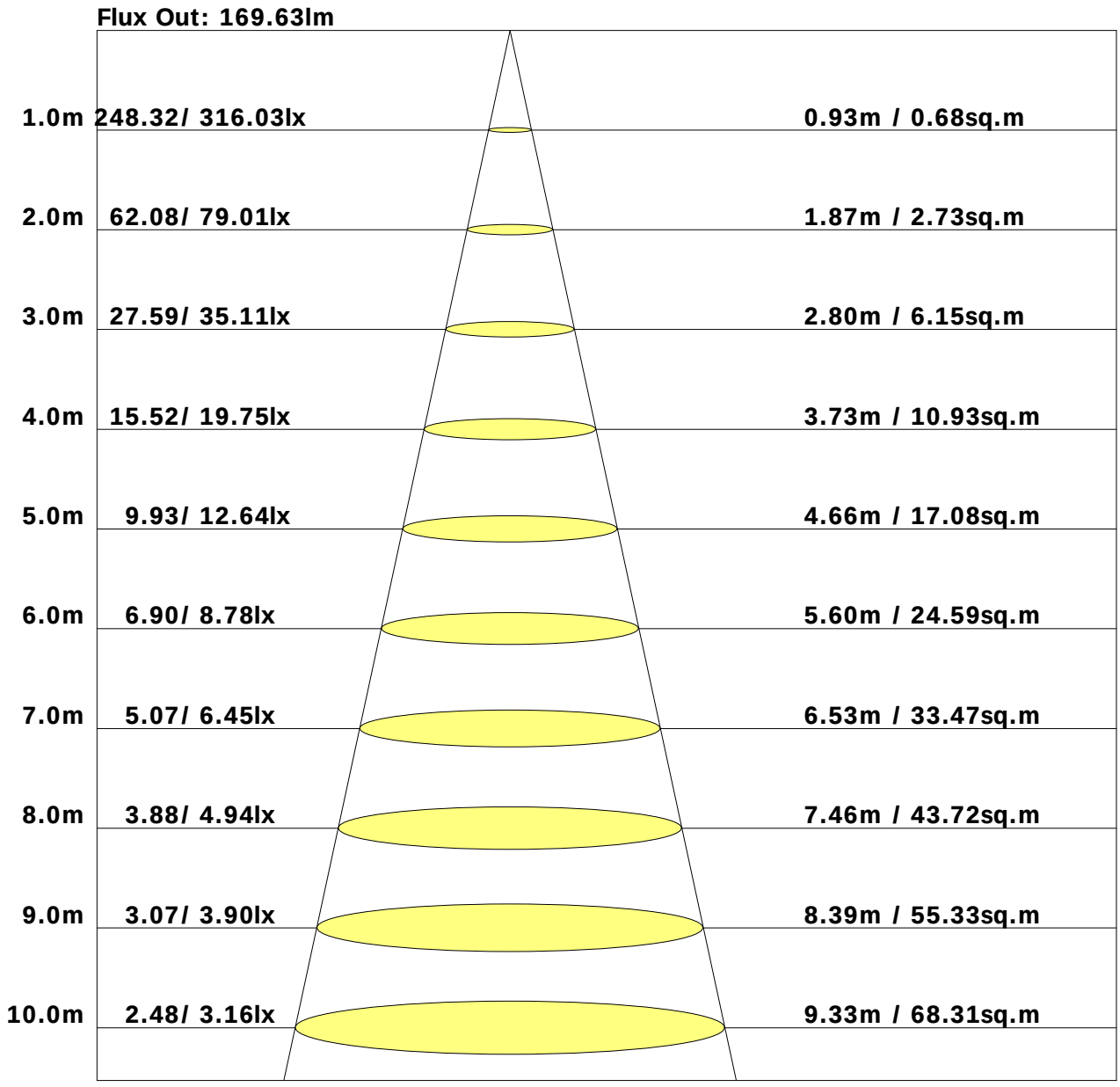
Unit: lm

Horizontal plane	Vertical plane -90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90	Flux(T)	Flux(E)
-90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0
-80	0.0	0.0	0.0	0.1	0.2	0.4	0.6	0.8	1.0	1.2	1.1	1.0	0.8	0.6	0.4	0.2	0.1	0.0	0.0	0.0	0.0
-70	0.0	0.0	0.2	0.4	0.6	0.9	1.2	1.6	1.9	2.2	2.1	1.9	1.6	1.2	0.9	0.6	0.4	0.2	0.0	0.0	0.0
-60	0.0	0.1	0.4	0.8	1.2	1.6	2.0	2.4	2.7	3.0	2.9	2.7	2.4	2.0	1.6	1.2	0.8	0.4	0.0	0.0	0.0
-50	0.0	0.2	0.6	1.2	2.0	2.8	3.5	4.1	4.4	4.4	4.4	4.0	3.5	2.7	2.0	1.4	0.9	0.5	0.1	0.0	0.0
-40	0.0	0.3	0.9	1.9	3.1	4.4	5.6	6.5	7.0	7.0	7.0	6.5	5.5	4.4	3.1	1.9	0.9	0.3	0.0	0.0	0.0
-30	0.0	0.3	1.1	2.2	3.5	5.0	6.4	7.5	8.1	8.1	8.1	7.5	6.4	5.0	3.5	2.1	1.0	0.3	0.0	0.0	0.0
-20	0.0	0.4	1.2	2.4	3.8	5.5	7.0	8.2	8.9	8.9	8.2	7.0	5.4	3.8	2.3	1.1	0.3	0.0	0.0	0.0	0.0
-10	0.0	0.4	1.2	2.4	4.0	5.7	7.3	8.6	9.4	9.3	8.6	7.3	5.7	3.9	2.4	1.2	0.3	0.0	0.0	0.0	0.0
0	0.0	0.4	1.2	2.4	3.9	5.6	7.2	8.4	9.2	9.3	8.6	7.3	5.7	3.9	2.4	1.2	0.3	0.0	0.0	0.0	0.0
10	0.0	0.3	1.1	2.3	3.7	5.2	6.6	7.8	8.7	8.8	8.2	7.0	5.4	3.8	2.3	1.1	0.3	0.0	0.0	0.0	0.0
20	0.0	0.3	1.0	2.0	3.3	4.6	5.9	7.1	7.8	7.9	7.4	6.3	5.0	3.5	2.1	1.0	0.3	0.0	0.0	0.0	0.0
30	0.0	0.2	0.8	1.7	2.8	4.0	5.1	6.1	6.7	6.8	6.4	5.5	4.3	3.0	1.8	0.9	0.2	0.0	0.0	0.0	0.0
40	0.0	0.2	0.6	1.3	2.2	3.2	4.2	4.9	5.4	5.5	5.1	4.5	3.5	2.5	1.5	0.7	0.2	0.0	0.0	0.0	0.0
50	0.0	0.1	0.4	0.9	1.6	2.4	3.1	3.7	4.0	4.1	3.8	3.3	2.6	1.9	1.1	0.5	0.1	0.0	0.0	0.0	0.0
60	0.0	0.1	0.2	0.5	1.0	1.5	2.0	2.4	2.6	2.7	2.5	2.2	1.7	1.2	0.7	0.3	0.1	0.0	0.0	0.0	0.0
70	0.0	0.0	0.1	0.2	0.4	0.6	0.8	1.1	1.2	1.3	1.2	1.0	0.8	0.5	0.3	0.1	0.0	0.0	0.0	0.0	0.0
80	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90	0.3	3.5	11.7	24.3	39.9	57.0	73.4	86.5	94.1	94.7	88.0	75.3	58.8	41.3	25.0	11.8	3.3	0.2	789		1.4
Flux(E)	0.0	2.3	10.8	23.4	39.1	56.1	72.5	85.6	93.3	93.8	87.2	74.4	58.0	40.4	24.1	10.8	2.1	0.0		774	

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:

The Average Illuminance Effective Figure



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Test Lab:
Test Type: TYPE C
Temperature: 25
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Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:

UGR Table

Reflectance:										
Ceiling (cavity)	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
X=2H Y=2H	22.3	23.8	22.7	24.2	24.5	20.4	22.0	20.8	22.3	22.7
3H	23.8	25.2	24.2	25.6	26.0	21.6	23.0	22.0	23.4	23.8
4H	24.3	25.6	24.7	26.0	26.4	21.9	23.3	22.4	23.6	24.1
6H	24.5	25.8	25.0	26.2	26.6	22.1	23.3	22.5	23.7	24.1
8H	24.6	25.7	25.0	26.2	26.6	22.1	23.2	22.5	23.6	24.1
12H	24.6	25.7	25.0	26.1	26.6	22.0	23.1	22.5	23.6	24.0
X=4H Y=2H	22.6	23.9	23.0	24.3	24.7	21.0	22.3	21.4	22.7	23.1
3H	24.3	25.4	24.7	25.8	26.3	22.3	23.4	22.8	23.8	24.3
4H	24.9	25.9	25.3	26.3	26.8	22.7	23.7	23.2	24.1	24.6
6H	25.2	26.0	25.7	26.5	27.0	22.9	23.7	23.3	24.2	24.7
8H	25.2	26.0	25.7	26.5	27.0	22.9	23.7	23.4	24.1	24.6
12H	25.2	25.9	25.7	26.5	27.0	22.9	23.6	23.4	24.1	24.6
X=8H Y=4H	24.9	25.8	25.4	26.2	26.7	22.9	23.7	23.3	24.1	24.6
6H	25.3	26.0	25.8	26.5	27.0	23.0	23.7	23.6	24.2	24.7
8H	25.4	26.0	25.9	26.5	27.0	23.1	23.7	23.6	24.2	24.7
12H	25.4	25.9	25.9	26.4	27.0	23.1	23.6	23.6	24.1	24.7
X=12H Y=4H	24.9	25.7	25.4	26.2	26.7	22.8	23.6	23.4	24.1	24.6
6H	25.3	25.9	25.8	26.4	27.0	23.1	23.7	23.6	24.1	24.7
8H	25.4	25.9	25.9	26.4	27.0	23.1	23.6	23.6	24.1	24.7

Calculate in accordance with CIE 190:2010

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
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Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:

Utilisation Factor Table(Floor cavity)

Utilisation Factors UF(F)						SHR NOM = 1.25					
Room Reflectance			Room Index(RI)								
Ceiling	Wall	Floor	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00
0.70	0.50	0.20	0.58	0.69	0.76	0.81	0.88	0.93	0.97	1.01	1.04
	0.30		0.51	0.61	0.69	0.74	0.82	0.88	0.92	0.97	1.01
	0.20		0.45	0.56	0.63	0.69	0.78	0.83	0.88	0.94	0.98
0.50	0.50	0.20	0.57	0.67	0.73	0.78	0.85	0.90	0.93	0.97	0.99
	0.30		0.50	0.60	0.67	0.73	0.80	0.85	0.89	0.94	0.97
	0.20		0.45	0.55	0.62	0.68	0.76	0.81	0.85	0.91	0.94
0.30	0.50	0.20	0.55	0.64	0.71	0.76	0.82	0.86	0.89	0.93	0.95
	0.30		0.49	0.59	0.66	0.71	0.78	0.83	0.86	0.90	0.93
	0.20		0.44	0.54	0.61	0.67	0.74	0.79	0.83	0.88	0.91
0.00	0.00	0.00	0.42	0.52	0.59	0.64	0.71	0.75	0.79	0.83	0.86

Rating:12W Photometrically tested without ceiling board.

Multiply UF values by service correction factors

Calculate in accordance with CIBSE Technical Memorandum NO.5 1980

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:

Utilisation Factor Table(Wall)

Utilisation Factors UF(W)						SHR NOM = 1.25				
Room Reflectance			Room Index(RI)							
Ceiling	Wall	Floor	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00
0.70	0.50	0.20	0.96	0.79	0.67	0.58	0.46	0.38	0.33	0.25	0.20
	0.30		0.80	0.68	0.58	0.52	0.42	0.35	0.30	0.24	0.19
	0.20		0.69	0.59	0.52	0.46	0.38	0.32	0.28	0.22	0.18
0.50	0.50	0.20	0.93	0.76	0.64	0.56	0.44	0.40	0.31	0.24	0.19
	0.30		0.78	0.66	0.57	0.50	0.40	0.34	0.29	0.22	0.18
	0.20		0.68	0.58	0.51	0.45	0.37	0.31	0.27	0.21	0.18
0.30	0.50	0.20	0.90	0.73	0.61	0.53	0.42	0.34	0.29	0.22	0.18
	0.30		0.77	0.64	0.55	0.48	0.39	0.32	0.28	0.21	0.18
	0.20		0.67	0.57	0.50	0.44	0.36	0.30	0.26	0.20	0.17
0.00	0.00	0.00	0.57	0.47	0.40	0.35	0.28	0.23	0.20	0.15	0.13

Rating:12W Photometrically tested without ceiling board.
Multiply UF values by service correction factors
Calculate in accordance with CIBSE Technical Memorandum NO.5 1980

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:

Utilisation Factor Table(Ceiling cavity)

Utilisation Factors UF(C)			SHR NOM = 1.25								
Room Reflectance			Room Index(RI)								
Ceiling	Wall	Floor	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00
0.70	0.50	0.20	0.17	0.19	0.20	0.20	0.21	0.22	0.22	0.23	0.23
	0.30		0.11	0.12	0.14	0.15	0.16	0.18	0.18	0.20	0.21
	0.20		0.06	0.08	0.09	0.11	0.13	0.14	0.15	0.17	0.18
0.50	0.50	0.20	0.17	0.18	0.19	0.19	0.20	0.21	0.21	0.22	0.22
	0.30		0.11	0.12	0.13	0.14	0.16	0.17	0.18	0.19	0.20
	0.20		0.06	0.08	0.09	0.10	0.12	0.14	0.15	0.17	0.18
0.30	0.50	0.20	0.16	0.17	0.18	0.19	0.19	0.20	0.20	0.21	0.21
	0.30		0.10	0.12	0.13	0.14	0.15	0.17	0.17	0.18	0.19
	0.20		0.06	0.08	0.09	0.10	0.12	0.14	0.15	0.16	0.17
0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01

Rating:12W Photometrically tested without ceiling board.
Multiply UF values by service correction factors
Calculate in accordance with CIBSE Technical Memorandum NO.5 1980

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:

Zonal Lumen

Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	312.2	0.3	0.3	0.04	0.04
1.0-2.0	312.1	0.9	1.2	0.11	0.15
2.0-3.0	311.8	1.5	2.7	0.19	0.34
3.0-4.0	311.3	2.1	4.8	0.26	0.60
4.0-5.0	310.6	2.7	7.4	0.33	0.93
5.0-6.0	309.7	3.3	10.7	0.41	1.34
6.0-7.0	308.7	3.8	14.5	0.48	1.82
7.0-8.0	307.5	4.4	18.9	0.55	2.37
8.0-9.0	306.2	5.0	23.9	0.62	2.99
9.0-10.0	304.7	5.5	29.4	0.69	3.67
10.0-11.0	303.1	6.1	35.5	0.76	4.43
11.0-12.0	301.4	6.6	42.1	0.82	5.26
12.0-13.0	299.5	7.1	49.2	0.89	6.14
13.0-14.0	297.5	7.6	56.8	0.95	7.10
14.0-15.0	295.3	8.1	64.9	1.01	8.11
15.0-16.0	293.0	8.6	73.5	1.07	9.18
16.0-17.0	290.7	9.1	82.5	1.13	10.31
17.0-18.0	288.1	9.5	92.0	1.19	11.50
18.0-19.0	285.4	9.9	102.0	1.24	12.74
19.0-20.0	282.7	10.3	112.3	1.29	14.03
20.0-21.0	279.8	10.7	123.1	1.34	15.38
21.0-22.0	276.7	11.1	134.2	1.39	16.77
22.0-23.0	273.6	11.5	145.7	1.43	18.20
23.0-24.0	270.4	11.8	157.5	1.48	19.68
24.0-25.0	267.1	12.1	169.6	1.52	21.20
25.0-26.0	263.7	12.4	182.1	1.56	22.75
26.0-27.0	260.2	12.7	194.8	1.59	24.34
27.0-28.0	256.6	13.0	207.8	1.62	25.97
28.0-29.0	252.9	13.2	221.0	1.65	27.62
29.0-30.0	249.2	13.5	234.5	1.68	29.30
30.0-31.0	245.4	13.7	248.2	1.71	31.01
31.0-32.0	241.5	13.8	262.0	1.73	32.74
32.0-33.0	237.6	14.0	276.0	1.75	34.49
33.0-34.0	233.6	14.1	290.1	1.77	36.26
34.0-35.0	229.6	14.3	304.4	1.78	38.04
35.0-36.0	225.5	14.4	318.8	1.79	39.83

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:

Zonal Lumen (Continue 1)

Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
36.0-37.0	221.3	14.4	333.2	1.80	41.63
37.0-38.0	217.1	14.5	347.7	1.81	43.45
38.0-39.0	212.9	14.5	362.2	1.82	45.26
39.0-40.0	208.6	14.5	376.8	1.82	47.08
40.0-41.0	204.2	14.5	391.3	1.82	48.90
41.0-42.0	199.9	14.5	405.8	1.82	50.71
42.0-43.0	195.6	14.5	420.3	1.81	52.52
43.0-44.0	191.2	14.4	434.8	1.80	54.33
44.0-45.0	186.7	14.3	449.1	1.79	56.12
45.0-46.0	182.2	14.3	463.4	1.78	57.90
46.0-47.0	177.7	14.1	477.5	1.77	59.67
47.0-48.0	173.1	14.0	491.5	1.75	61.42
48.0-49.0	168.6	13.8	505.3	1.73	63.15
49.0-50.0	164.1	13.7	519.0	1.71	64.86
50.0-51.0	159.5	13.5	532.5	1.69	66.54
51.0-52.0	154.9	13.3	545.8	1.66	68.20
52.0-53.0	150.3	13.1	558.9	1.63	69.84
53.0-54.0	145.7	12.8	571.7	1.60	71.44
54.0-55.0	141.1	12.6	584.3	1.57	73.02
55.0-56.0	136.4	12.3	596.7	1.54	74.56
56.0-57.0	131.7	12.0	608.7	1.51	76.06
57.0-58.0	127.1	11.8	620.5	1.47	77.53
58.0-59.0	122.4	11.4	631.9	1.43	78.96
59.0-60.0	117.7	11.1	643.0	1.39	80.35
60.0-61.0	112.9	10.8	653.8	1.35	81.70
61.0-62.0	108.2	10.4	664.2	1.30	83.00
62.0-63.0	103.4	10.1	674.3	1.26	84.26
63.0-64.0	98.6	9.7	684.0	1.21	85.46
64.0-65.0	93.8	9.3	693.2	1.16	86.62
65.0-66.0	89.0	8.9	702.1	1.11	87.73
66.0-67.0	84.2	8.5	710.6	1.06	88.79
67.0-68.0	79.4	8.0	718.6	1.00	89.80
68.0-69.0	74.6	7.6	726.2	0.95	90.75
69.0-70.0	69.8	7.2	733.4	0.90	91.64
70.0-71.0	65.0	6.7	740.1	0.84	92.48
71.0-72.0	60.4	6.3	746.4	0.78	93.27

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:

Zonal Lumen (Continue 2)

Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
72.0-73.0	55.6	5.8	752.2	0.73	93.99
73.0-74.0	51.0	5.4	757.6	0.67	94.66
74.0-75.0	46.4	4.9	762.5	0.61	95.28
75.0-76.0	41.8	4.4	766.9	0.55	95.83
76.0-77.0	37.3	4.0	770.9	0.50	96.33
77.0-78.0	33.0	3.5	774.4	0.44	96.77
78.0-79.0	28.8	3.1	777.5	0.39	97.15
79.0-80.0	24.7	2.7	780.2	0.33	97.49
80.0-81.0	20.8	2.2	782.4	0.28	97.77
81.0-82.0	17.1	1.9	784.3	0.23	98.00
82.0-83.0	13.6	1.5	785.7	0.18	98.18
83.0-84.0	10.4	1.1	786.9	0.14	98.33
84.0-85.0	7.6	0.8	787.7	0.10	98.43
85.0-86.0	5.1	0.6	788.3	0.07	98.50
86.0-87.0	3.2	0.4	788.6	0.04	98.54
87.0-88.0	1.9	0.2	788.8	0.03	98.57
88.0-89.0	1.1	0.1	788.9	0.02	98.58
89.0-90.0	0.9	0.1	789.0	0.01	98.60
90.0-91.0	0.8	0.1	789.1	0.01	98.61
91.0-92.0	0.9	0.1	789.2	0.01	98.62
92.0-93.0	0.9	0.1	789.3	0.01	98.63
93.0-94.0	0.9	0.1	789.4	0.01	98.64
94.0-95.0	0.9	0.1	789.5	0.01	98.66
95.0-96.0	1.0	0.1	789.6	0.01	98.67
96.0-97.0	1.0	0.1	789.7	0.01	98.68
97.0-98.0	1.0	0.1	789.8	0.01	98.70
98.0-99.0	1.0	0.1	790.0	0.01	98.71
99.0-100.0	1.0	0.1	790.1	0.01	98.72
100.0-101.0	1.1	0.1	790.2	0.01	98.74
101.0-102.0	1.1	0.1	790.3	0.01	98.75
102.0-103.0	1.1	0.1	790.4	0.02	98.77
103.0-104.0	1.2	0.1	790.5	0.02	98.78
104.0-105.0	1.2	0.1	790.7	0.02	98.80
105.0-106.0	1.2	0.1	790.8	0.02	98.82
106.0-107.0	1.3	0.1	790.9	0.02	98.83
107.0-108.0	1.3	0.1	791.1	0.02	98.85

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:

Zonal Lumen (Continue 3)

Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
108.0-109.0	1.3	0.1	791.2	0.02	98.87
109.0-110.0	1.4	0.1	791.3	0.02	98.88
110.0-111.0	1.4	0.1	791.5	0.02	98.90
111.0-112.0	1.4	0.1	791.6	0.02	98.92
112.0-113.0	1.5	0.1	791.8	0.02	98.94
113.0-114.0	1.5	0.2	791.9	0.02	98.96
114.0-115.0	1.5	0.2	792.1	0.02	98.98
115.0-116.0	1.6	0.2	792.2	0.02	99.00
116.0-117.0	1.6	0.2	792.4	0.02	99.01
117.0-118.0	1.6	0.2	792.6	0.02	99.03
118.0-119.0	1.7	0.2	792.7	0.02	99.05
119.0-120.0	1.7	0.2	792.9	0.02	99.07
120.0-121.0	1.7	0.2	793.0	0.02	99.09
121.0-122.0	1.8	0.2	793.2	0.02	99.12
122.0-123.0	1.8	0.2	793.4	0.02	99.14
123.0-124.0	1.8	0.2	793.5	0.02	99.16
124.0-125.0	1.9	0.2	793.7	0.02	99.18
125.0-126.0	1.9	0.2	793.9	0.02	99.20
126.0-127.0	1.9	0.2	794.0	0.02	99.22
127.0-128.0	2.0	0.2	794.2	0.02	99.24
128.0-129.0	2.0	0.2	794.4	0.02	99.26
129.0-130.0	2.0	0.2	794.6	0.02	99.29
130.0-131.0	2.1	0.2	794.7	0.02	99.31
131.0-132.0	2.1	0.2	794.9	0.02	99.33
132.0-133.0	2.1	0.2	795.1	0.02	99.35
133.0-134.0	2.2	0.2	795.3	0.02	99.37
134.0-135.0	2.2	0.2	795.4	0.02	99.39
135.0-136.0	2.2	0.2	795.6	0.02	99.41
136.0-137.0	2.3	0.2	795.8	0.02	99.44
137.0-138.0	2.3	0.2	795.9	0.02	99.46
138.0-139.0	2.3	0.2	796.1	0.02	99.48
139.0-140.0	2.4	0.2	796.3	0.02	99.50
140.0-141.0	2.4	0.2	796.4	0.02	99.52
141.0-142.0	2.4	0.2	796.6	0.02	99.54
142.0-143.0	2.5	0.2	796.8	0.02	99.56
143.0-144.0	2.5	0.2	796.9	0.02	99.58

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:

Zonal Lumen (Continue 4)

Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
144.0-145.0	2.5	0.2	797.1	0.02	99.60
145.0-146.0	2.5	0.2	797.3	0.02	99.62
146.0-147.0	2.6	0.2	797.4	0.02	99.64
147.0-148.0	2.6	0.2	797.6	0.02	99.66
148.0-149.0	2.6	0.2	797.7	0.02	99.68
149.0-150.0	2.6	0.1	797.9	0.02	99.70
150.0-151.0	2.7	0.1	798.0	0.02	99.72
151.0-152.0	2.7	0.1	798.1	0.02	99.73
152.0-153.0	2.7	0.1	798.3	0.02	99.75
153.0-154.0	2.8	0.1	798.4	0.02	99.77
154.0-155.0	2.8	0.1	798.6	0.02	99.78
155.0-156.0	2.8	0.1	798.7	0.02	99.80
156.0-157.0	2.8	0.1	798.8	0.02	99.81
157.0-158.0	2.8	0.1	798.9	0.01	99.83
158.0-159.0	2.9	0.1	799.0	0.01	99.84
159.0-160.0	2.9	0.1	799.1	0.01	99.86
160.0-161.0	2.9	0.1	799.3	0.01	99.87
161.0-162.0	2.9	0.1	799.4	0.01	99.88
162.0-163.0	2.9	0.1	799.4	0.01	99.90
163.0-164.0	3.0	0.1	799.5	0.01	99.91
164.0-165.0	3.0	0.1	799.6	0.01	99.92
165.0-166.0	3.0	0.1	799.7	0.01	99.93
166.0-167.0	3.0	0.1	799.8	0.01	99.94
167.0-168.0	3.0	0.1	799.9	0.01	99.95
168.0-169.0	3.0	0.1	799.9	0.01	99.96
169.0-170.0	3.1	0.1	800.0	0.01	99.96
170.0-171.0	3.1	0.1	800.0	0.01	99.97
171.0-172.0	3.1	0.0	800.1	0.01	99.98
172.0-173.0	3.1	0.0	800.1	0.01	99.98
173.0-174.0	3.1	0.0	800.2	0.00	99.99
174.0-175.0	3.1	0.0	800.2	0.00	99.99
175.0-176.0	3.1	0.0	800.2	0.00	99.99
176.0-177.0	3.1	0.0	800.3	0.00	100.00
177.0-178.0	3.1	0.0	800.3	0.00	100.00
178.0-179.0	3.1	0.0	800.3	0.00	100.00
179.0-180.0	3.2	0.0	800.3	0.00	100.00

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector: